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L38: Entry 1 of 7

File: USPT

Mar 23, 2004

DOCUMENT-IDENTIFIER: US 6711613 B1

TITLE: Remote power control system

Brief Summary Text (20):

It is therefore an object of the present invention to provide a system and method for providing power supply status and control in network nodes at geographically distant locations.

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L34: Entry 1 of 8

File: USPT

Jan 13, 2004

DOCUMENT-IDENTIFIER: US 6678528 B2

**** See image for Certificate of Correction ****

TITLE: Wireless handset notification of a call processing event

Detailed Description Text (10):

In accordance with the present invention, a service node 70 is incorporated into the wireless network to receive the notification message from the PSTN. The service node 70 is operable to receive the notification message generated by the PSTN network and either immediately deliver the message to the user device or store the message for later delivery. In one embodiment, the service node comprises a Short Message Service Center (SMSC) 70 specifically configured to handle SMS messages. The SMSC is connected to the MSC over E1 lines using SS7 and is responsible for relaying, storing, and forwarding the SMS message from the PSTN to the user device 46. It will be appreciated that the service node, though shown as a separate entity, may be incorporated into any one of multiple nodes in either the wireless or PSTN networks.

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L19: Entry 3 of 4

File: USPT

Apr 1, 1986

DOCUMENT-IDENTIFIER: US 4580011 A

TITLE: Distributed processing telephone switching system

Detailed Description Text (109):

The switching system of the present invention is a sophisticated system designed to operate as an intelligent telephone least cost routing (LCR) switching center. It can be configured in sizes from 12 to 192 pairs of incoming and outgoing ports in multiples of 12. Referring specifically to FIG. 1, the system includes four subcomponents: the telephone line couplers 10, 11; a matrix crosspoint switch 12; the control system 13; and a high level microcomputer 14 equipped with a disk drive and a modem (LCR computer, or LCRC). The line couplers 10, 11 interface the telephone lines with the rest of the system and are completely solid state. The crosspoint switch 12 is an electronic, nonblocking array capable of connecting any SIDE1 line or lines to any SIDE2 line or lines. The controller 13 is actually a distributed network of microprocessors forming the nucleus of the system and performing the following functions: interfacing with the control signals from the couplers to carry out the supervisory activities of ring and hangup detection and control of on and off-hook conditions; interfacing with the crosspoint switch hardware to control the make/break status of each crosspoint; providing DTMF tone encoders and decoders, dial tone, ready tone, and busy tone detectors and generators; allocating tone modules to incoming and outgoing requirements; pre-processing customer signalling (travel, authorization and billing codes, requested telephone number) and post-processing outgoing call requirements (wait for dial tone, access number, wait for ready tone, authorization code, requested number); interfacing with backup power supply signals; providing a real-time clock; and interfacing with the LCRC through a serial line. It is the function of the controller to perform all duties of the system switch with the exception of the actual authorization code verification, route selection, and data logging requirements; these are the functions of the LCRC 14.

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L7: Entry 2 of 5

File: USPT

Sep 19, 1989

DOCUMENT-IDENTIFIER: US 4868832 A

TITLE: Computer power system

Brief Summary Text (14):

In accordance with the invention, a backup computer power system for powering and controlling a computer which otherwise is powered by a main power source, comprises an auxiliary power supply means for providing backup power to the computer, including an auxiliary power source, failure detection means for detecting failure of the main power source and for connecting the computer to the auxiliary power source, and then for determining restoration of the main power source and for reconnecting the computer to the main power source; signalling means for providing to the computer from the auxiliary power supply means a failure signal upon failure of the main power source and a restoration signal upon restoration of the main power source; instruction means stored in the computer for executing a preprogrammed shutdown sequence upon receipt of the failure signal from the signalling means and a preprogrammed restart sequence upon receipt of the restoration signal from the signalling means, the instruction means providing for operator intervention to defeat the preprogrammed shutdown and restart sequences prior to initiation of the preprogrammed shutdown sequence at the option of the operator, the preprogrammed shutdown sequence providing for the saving of the software operating environment and the shutdown of the computer by a preselected series of steps, and the preprogrammed restart sequence providing for the restoration of the software operating environment and the startup of the computer by a preselected series of steps, whereby the computer is restored to a preselected operating condition.

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L8: Entry 1 of 3

File: USPT

Oct 15, 1996

DOCUMENT-IDENTIFIER: US 5566339 A

TITLE: System and method for monitoring computer environment and operation

Brief Summary Text (17):

The present invention provides a stand alone Unit containing its own microprocessor designed to monitor the environment and control microprocessor based computers to which the Unit is connected. This Unit is designed for connection to a Work Station. The Unit is controlled by a micro-processor based software operating system residing in the Unit and/or software programs installed in the Work Station to which the Unit is connected. The apparatus is capable of (1) detecting if the Work Station fails; (2) monitoring an unlimited number of File Servers connected over a Local Area Network (LAN); (3) monitoring the availability of public utility power or backup reserve power; (4) switching between main public utility power and backup power sources should main power fail or main power be subsequently restored; (5) detecting the presence of loud audible sounds and discerning the type of device generating said sound by analyzing the sound produced by the device's audible siren (e.g. smoke detector, fire alarm, etc.); (6) permitting a person called to listen over the phone line to any loud sounds present during a loud sound alert call; (7) detecting excessive heat or cold; (8) detecting intruders or other alert conditions detected by external monitoring devices, such as a water sensor; (9) placing alert phone calls to pagers or individuals when alert situations are detected via a direct interface between the microprocessor and the phone line, (10) analyzing sound transmitted over the phone line when alert calls are in progress to determine why a call could not be completed; or, when a call has been successfully completed, the party called has stopped speaking, and the alert message should be delivered; (11) permitting persons alerted to remotely listen to the sound level being produced by an audible alarm siren in a case where a loud sound level has been detected; (11) recording what is spoken by the answering party when an alert message is delivered to a person; (12) monitoring the status of user jobs being processed on any microprocessor based computer to determine when the job has been completed or fails; (13) contacting via telephone and delivering user recorded or pre-recorded voice messages alert messages to an unlimited number of designated persons should a alert situation be detected; (14) detecting (via the Work Station) when the Unit has failed so that alert calls can optionally be placed to a pager using a user supplied modem; (15) permitting persons called during an alert situation to confirm that the alert call has been received by pressing a touch tone on their telephone; and (16) permitting persons called to remotely abort any pending alert calls to others from being delivered by pressing a touch tone on their telephone during the time an alert message is being delivered.

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L8: Entry 2 of 3

File: USPT

Sep 19, 1989

DOCUMENT-IDENTIFIER: US 4868832 A

TITLE: Computer power system

CLAIMS:

13. A controller for use with a backup computer power system for powering and controlling a computer which otherwise is powered by a main power source, the computer power system having

auxiliary power supply means for providing backup power to the computer, including an auxiliary power source including a battery, an automatic power source selector switch, and a status monitor that, upon failure of the main power source, operates the power source selector switch to connect the computer to the auxiliary power source, the controller comprising:

signalling means for providing a failure indication output to the computer, and

instruction means stored in the computer, the instruction means including:

shutdown code for executing a preprogrammed shutdown sequence upon receipt of the failure indication output from the signalling means, and

restart code for executing a preprogrammed restart sequence upon receipt of the power restoration indication output from the signalling means.

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L28: Entry 1 of 5

File: USPT

Sep 15, 1987

DOCUMENT-IDENTIFIER: US 4694487 A

TITLE: Controlling multi-fort hunt groups in a distributed control switching system

Detailed Description Text (70):

As a second example, assume that the digits dialed by subscriber set 528 represent the directory number of subscriber set 529 as before, but that subscriber set 529 is part of a multi-line hunt group not controlled by remote switching module 501 but instead controlled by central control 30. Call processing control system process 3601 (FIG. 30) is informed of the off-hook detection as before and creates an originating terminal process 3611. Originating terminal process 3611 then transmits a RTREQ message to routing system process 3602, which stores the received RTREQ message in RDBLK 3201. Routing system process 3602 then executes its routing program (FIG. 25 through 29). When program execution reaches the point that the LNSTAT relation 3212 is to be accessed, the dynamic data defining the busy/idle status of the multi-line hunt group including subscriber set 529 is not present. Therefore a generalized routing message RTGEN (FIG. 32) is formulated in the message buffer. The RTGEN message includes the PATHDES, RTGDATA and ORIGTPI fields described before with respect to the RTREQ message. The RTGEN message also includes a REQTERM field that defines the state of the routing program to be entered when routing is continued by the next processor and the value of the key required to read the next relation. The RTGEN message further includes the RTCONTDA field which defines values of a number of variables which have already been determined by routing system process 3602, for example variables stored in CFBLK 3202, in order that unnecessary work is not repeated when routing is continued. In addition, the RTGEN message also includes an ORIGGPI field and a TERMGPI field which store the global port identities of the originating port and the terminating port, respectively. Of course the TERMGPI field cannot be filled in until after the determination of the terminating port is completed. The RTGEN message is transmitted to routing system process 3603 in central control 30 which enters its routing program at the point defined by the REQTERM field. Information from the RTGEN message is stored in the appropriate fields in RDBLK 3101 and CFBLK 3102. Since the dynamic data defining the busy/idle status of the multi-line hunt group including subscriber set 529 is present in the LNSTAT relation 3112, routing system process 3603 is able to complete the determination of the terminating port. Assume that subscriber set 23 connected to switching module 201 is a member of the same multi-line hunt group that subscriber set 529 is in and that subscriber set 23 is assigned to the call as a result of the hunting effected by routing system process 3603. Routing system process 3603 selects an available network time slot to be used for the call and, since the terminating port is connected to a different switching module than the originating port, writes information defining the selected time slot into control memory 29. Routing system process 3603 then transmits an RTGEN message, which includes the selected network time slot in its PATHDES field and which also includes a completed TERMGPI field, to a termination system process 3610 in switching module 201. In response, process 3610 reads a busy/idle map stored in switching module 201 to determine whether subscriber set 23 is presently busy or idle. If subscriber set 23 is presently idle, process 3610 creates a terminating terminal process 3612 and forwards the information in the RTGEN message to process 3612 via a LNTERM message. Terminating terminal process 3612 effects the transmission of ringing voltage to subscriber set 23 and the transmission of an E-bit continuity signal and audible ringing tones to host switching module 301.

Terminating terminal process 3612 then transmits a SETUPCOMP message to originating terminal process 3611 in remote switching module 501. In response, originating terminal process 3611 effects the selection of a time slot for the call on one of the transmission facilities 421 through 424 (FIG. 20), e.g., 421, and also effects a control communication with host switching module 301 such that time-slot interchange unit 311 connects the selected call time slot on transmission facility 421 to the selected network time slot of time-multiplexed switch 10. Such control communication with host switching module 301 is described in the above-cited Chodrow et al. U.S. Pat. No. 4,550,404. Once the E-bit continuity signal from switching module 201 is received by remote switching module 501 via host switching module 301, originating terminal process 3611 writes information in the control RAM of time-slot interchange unit 511 defining the mapping between the originating peripheral time slot and the selected call time slot on transmission facility 421. Similarly, once the E-bit continuity signal is received by switching module 201, terminating terminal process 3612 writes information in the control RAM 55 of time-slot interchange unit 11 defining the mapping between the terminating peripheral time slot and the network time slot. The communication path between subscriber sets 528 and 23 has now been set up.

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L35: Entry 1 of 5

File: USPT

Jul 29, 1997

DOCUMENT-IDENTIFIER: US 5652784 A

TITLE: Automatic telephone advertising provided in lieu of dial-tone

CLAIMS:

7. Telephone advertising message service apparatus, comprising a digital telephone exchange comprising a trunk connector having plural trunk cards connected to pulse code modulated (PCM) trunks to other exchanges, plural PCM lines connected to each trunk card, a connection network having a trunk side and a subscriber side, the trunk side connected to the plural PCM lines, plural digital lines connected to the subscriber side of the connection network, a subscriber phase having plural subscriber phase cards connected to the plural digital lines, analog cables connected to the subscriber phase cards, a main distribution frame connected to the analog cables, and subscriber lines and subscriber sets connected to the main distribution frame, a stored program control connected to the trunk cards, to the connection network and to the subscriber phase cards for providing connection of the subscriber lines to other subscriber lines or to PCM trunks to other exchanges through the connection network, and advertising message machines connected to the connection network for supplying advertising messages via the connection network, the digital lines, the subscriber phase cards and the main distribution frame to the subscriber lines, further comprising means for assigning categories of service to a subscriber line in the stored program control of the digital telephone exchange, means for connecting the subscriber line to the digital telephone exchange by the subscriber line going off-hook, means for detecting the off-hook condition of the subscriber line, means for checking with the stored program control the categories of service assigned to the subscriber line, means for verifying in the categories of service that the subscriber line has requested the telephone advertising service, means for selecting the advertising message based on a characteristic being when the telephone advertising service has been requested, the characteristic encoded within categories of service of the subscriber and means for selecting a particular advertising message based on characteristics of time of day, a subscriber type, and a geographical location, means for connecting the subscriber line to one of the message machines based on the selected characteristic, means for delivering the selected advertising message from the message machine to the subscriber line, means for delivering dial tone to the subscriber line when the advertising message has ended, and means for accepting a subscriber dialed number, and proceeding with a telephone call in response to the dialed number.

12. An advertising message service apparatus comprising a trunk connector, multiple trunk cards connected to the trunk connector and to other telephone exchanges, a connection network connected to the trunk cards by multiple pulse code modulated (PCM) lines, a sUbscriber'side and multiple subscriber phase, the subscriber side cards connected to the connection network by digital lines, a main distributor connected to the subscriber side by analog cables, a telephone set connected to the main distributor by subscriber lines, message machines for playing advertising messages, a controller connected to the connection network, to the trunk connector, to the message machines and to the subscriber side for controlling initiation and delivering of advertising messages, and the message machines connected to the connection network for delivering the advertising messages to the telephone via the

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L35: Entry 2 of 5

File: USPT

Jul 9, 1996

DOCUMENT-IDENTIFIER: US 5535264 A

TITLE: Prompt issuing protocol for an intercept voice messaging system

CLAIMS:

1. In a voice messaging system for use in a telecommunications network of a telephone company, said system providing a voice store and forward service to a caller at a telephone of said network whereby said caller can record a voice message that the system will deliver to an intended recipient at a telephone number of said intended recipient, said network including a central office and a line connection coupling said telephone to said central office, said system including an Intercept Processing Subsystem (IPS) interposed in said line connection, said IPS being operative to control said line connection by controllably maintaining a straight through condition between said telephone and said central office or by splitting said line connection, said IPS including prompt issuance means for issuing voice prompts to said caller over said line connection, said IPS including a speed dialer for dialing telephone numbers to said central office over said line connection, said IPS including detection means for detecting when said caller has gone off-hook, said system further including a Voice Processing Subsystem (VPS) for recording said voice message and delivering said voice message to said intended recipient,

a voice messaging service method offering and providing said caller with two opportunities to accept said voice store and forward service, a first opportunity occurring when said caller goes off-hook at said telephone before said caller dials said telephone number of said intended recipient to place a call thereto and a second opportunity occurring after said caller dials said telephone number of said intended recipient and said call is advanced through said central office, said voice messaging service method operating to offer and provide said voice store and forward service to said caller without said system detecting if said call by said caller to said intended recipient results in a busy or no-answer condition, said method comprising:

A) maintaining, by said IPS, said line connection in said straight through condition,

B) detecting, by said detection means, when said caller has gone off-hook at said telephone,

C) issuing a voice prompt to said caller by said prompt issuance means in response to said caller going off-hook so as to provide said voice prompt to said caller prior to said caller dialing said telephone number of said intended recipient, said voice prompt being issued as follows:

YOU ARE PROVIDED WITH TWO OPTIONS--FIRST OPTION--IF THE NUMBER YOU INTEND TO CALL IS BUSY OR DOES NOT ANSWER, BY PRESSING THE STAR KEY AT THAT TIME YOU MAY RECORD A MESSAGE FOR LATER DELIVERY TO THAT NUMBER--SECOND OPTION--YOU MAY INSTEAD, WITHOUT PUTTING THE CALL THROUGH, RECORD THE MESSAGE FOR LATER DELIVERY TO THE NUMBER BY PRESSING THE STAR KEY NOW,

D) said voice prompt being arranged to advise said caller of availability of said voice store and forward service,

E) said voice prompt being further arranged to advise said caller that, as a first of two options, said voice store and forward service can be accepted by said caller upon pressing said star key if said caller detects that said call placed by said caller to said telephone number of said intended recipient results in said busy or no-answer condition,

F) said voice prompt being further arranged to advise said caller that, as a second of said two options, said voice store and forward service can be accepted by said caller by pressing said star key without putting said call through to said telephone number of said intended recipient,

G) said voice prompt alerting said caller to said availability of said voice store and forward service prior to said caller dialing said telephone number of said intended recipient so that said caller can accept said voice store and forward service upon pressing said star key before dialing said telephone number of said intended recipient as well as after dialing said telephone number of said intended recipient when said caller detects said busy or no-answer condition,

H) said voice prompt defining a call contract exclusively between said telephone company and said caller where said telephone company offers said caller said voice store and forward service, said caller accepting said voice store and forward service by pressing said star key either before said caller dials said telephone number of said intended recipient or after said caller dials said telephone number of said intended recipient and detects that said call to said telephone number of said intended recipient has resulted in said busy or no-answer condition,

I) if said caller accepts said voice store and forward service pursuant to said second option,

I1) splitting, by said IPS, said line connection,

I2) prompting said caller by said IPS, using said prompt issuance means, to dial said telephone number of said intended recipient,

I3) storing, in said IPS, said telephone number of said intended recipient dialed by said caller pursuant to step I2,

I4) speed dialing said VPS by said IPS using said speed dialer,

I5) transmitting call parameters to said VPS from said IPS including said telephone number of said intended recipient stored in said IPS,

I6) re-establishing, by said IPS, said line connection to said straight through condition whereby said caller at said telephone can record said voice message in said VPS for delivery to said intended recipient,

J) if said caller does not accept said voice store and forward service pursuant to said second option,

J1) dialing, by said caller, said telephone number of said intended recipient to extend said call through said central office,

J2) storing said telephone number of said intended recipient in said IPS dialed pursuant to step J1,

K) if said caller detects said busy or no-answer condition and accepts said voice store and forward service pursuant to said first option,

K1) splitting, by said IPS, said line connection,

K2) speed dialing said VPS by said IPS using said speed dialer,

K3) transmitting call parameters to said VPS from said IPS including said telephone number of said intended recipient stored in said IPS,

K4) re-establishing, by said IPS, said line connection to said straight through condition whereby said caller at said telephone can record said voice message in said VPS for delivery to said intended recipient.

2. In a voice messaging system for use in a telecommunications network of a telephone company, said system providing a voice store and forward service to a caller at a telephone of said network whereby said caller can record a voice message that the system will deliver to an intended recipient at a telephone number of said intended recipient, said network including a central office and a line connection coupling said telephone to said central office, said system including an Intercept Processing Subsystem (IPS) interposed in said line connection, said IPS being operative to control said line connection by controllably maintaining a straight through condition between said telephone and said central office or by splitting said line connection, said IPS including prompt issuance means for issuing voice prompts to said caller over said line connection, said IPS including a speed dialer for dialing telephone numbers to said central office over said line connection, said IPS including a dial tone generator, said IPS including detection means for detecting when said caller has gone off-hook, said system further including a Voice Processing Subsystem (VPS) for recording said voice message and delivering said voice message to said intended recipient,

a voice messaging service method offering and providing said caller with two opportunities to accept said voice store and forward service, a first opportunity occurring before a call dialed by said caller to said telephone number of said intended recipient is advanced to said central office and a second opportunity occurring after said caller dials said telephone number of said intended recipient and said call is advanced through said central office, said voice messaging service method operating to offer and provide said voice store and forward service to said caller without said system detecting if said call by said caller to said intended recipient results in a busy or no-answer condition, said method comprising:

A) splitting said line connection by said IPS,

B) when said caller has gone off-hook at said telephone, providing dial tone to said caller at said telephone using said dial tone generator in said IPS,

C) dialing, by said caller, said telephone number of said intended recipient,

D) storing, in said IPS, said telephone number of said intended recipient dialed by said caller pursuant to step C,

E) issuing a voice prompt to said caller by said prompt issuance means after step D, so as to provide said voice prompt to said caller subsequent to said caller dialing said telephone number of said intended recipient and before said call is advanced to said central office, said voice prompt being issued as follows:

YOU ARE PROVIDED WITH TWO OPTIONS--FIRST OPTION--IF THE NUMBER YOU INTEND TO CALL IS BUSY OR DOES NOT ANSWER, BY PRESSING THE STAR KEY AT THAT TIME YOU MAY RECORD A MESSAGE FOR LATER DELIVERY TO THAT NUMBER--SECOND OPTION--YOU MAY INSTEAD, WITHOUT PUTTING THE CALL THROUGH, RECORD THE MESSAGE FOR LATER DELIVERY TO THE NUMBER BY PRESSING THE STAR KEY NOW,

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L35: Entry 3 of 5

File: USPT

May 9, 1995

DOCUMENT-IDENTIFIER: US 5414754 A

TITLE: System for providing proactive call services utilizing remote monitors

Detailed Description Text (10):

For message delivery, the network applications platform ships the message routing information (i.e., the ANI, etc.) back to the voice storage unit 284, and the processor 266 then locates an open channel on a link for outdialing to the original called station. The service circuit then dials the call. When the call is placed, the scanner 274 watches the call states for on-hook/off-hook detection. If off-hook is detected, the service circuit 276 issues a prompt announcing the message which is then delivered by the voice storage unit 284. When the message is delivered, the processor 266 notifies the network applications platform and the packet is deleted.

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